0590
1/22

OIPE

#4

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/943,286

DATE: 01/31/2002
TIME: 13:09:37

Input Set : A:\GP104.SeqLst.corrected.txt
Output Set: N:\CRF3\01312002\I943286.raw

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      5 <120> TITLE OF INVENTION: POLYNUCLEOTIDE AMPLIFICATION METHOD
      8 <130> FILE REFERENCE: GP104-02.UT
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/943,286
C--> 10 <141> CURRENT FILING DATE: 2001-08-30
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     12 <170> SOFTWARE: FastSEQ for Windows Version 3.0
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     16 <212> TYPE: DNA
     17 <213> ORGANISM: Artificial Sequence
     19 <220> FEATURE:
     20 <223> OTHER INFORMATION: Primer T7A(-)4190
     22 <400> SEQUENCE: 1
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     25 <210> SEQ ID NO: 2
     26 <211> LENGTH: 19
     27 <212> TYPE: DNA
     28 <213> ORGANISM: Artificial Sequence
     30 <220> FEATURE:
     31 <223> OTHER INFORMATION: Primer (+)4108
     33 <400> SEQUENCE: 2
     34  acagcagtac aaatggcag                                               19
     36 <210> SEQ ID NO: 3
     37 <211> LENGTH: 8933
     38 <212> TYPE: RNA
     39 <213> ORGANISM: Human Immunodeficiency Virus
     41 <220> FEATURE:
     42 <221> NAME/KEY: source
     43 <222> LOCATION: (1)...(8933)
     44 <223> OTHER INFORMATION: Sequence of transcripts produced from the BH10
     45       plasmid.
     47 <400> SEQUENCE: 3
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     49 cgacugguga guacgccaaa aauuuugacu agcggaggcu agaaggagag agaugggugc     120
     50 gagagcguca guauuaagcg ggggagaauu agaucgaugg gaaaaaauuc gguuaaggcc     180
     51 agggggaaag aaaaaauaua aauuaaaaca uauaguaugg gcaagcaggg agcuagaacg     240
     52 auucgcaguu aauccuggcc uguuagaaac aucagaaggc uguagacaaa uacugggaca     300
     53 gcuacaacca ucccuucaga caggaucaga agaacuuaga ucauuauaua auacaguagc     360
     54 aacccucuau ugugugcauc aaaggauaga gauaaaagac accaaggaag cuuuagacaa     420
     55 gauagaggaa gagcaaaaca aaaguaagaa aaaagcacag caagcagcag cugacacagg     480
     56 acacagcagu caggucagcc aaaauuaccc uauagugcag aacauccagg ggcaaauggu     540
     57 acaucaggcc auaucaccua gaacuuuaaa ugcaugggua aaaguaguag aagagaaggc     600
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Input Set : A:\GP104.SeqLst.corrected.txt
Output Set: N:\CRF3\01312002\I943286.raw

58 uuucagccca gaaguaauac ccauguuuuc agcauuauca gaaggagcca ccccacaaga 660
59 uuuaaacacc augcuaaaca caguggggg acaucaagca gccaugcaaa uguuaaaaga 720
60 gaccaucaau gaggaagcug cagaauggga uagaguacau ccagugcaug cagggccuau 780
61 ugcaccaggc cagaugagag aaccaagggg aagugacaua gcaggaacua cuaguacccu 840
62 ucaggaacaa auaggaugga ugacaaauaa uccaccuauc ccaguaggag aaauuuauaa 900
63 aagauggaua auccugggau uaaauaaaau aguaagaaug uauagcccua ccagcauucu 960
64 ggacauaaga caaggaccaa aagaaccuuu uagagacuau guagaccggu ucuauaaaac 1020
65 ucuaagagcc gagcaagcuu cacaggaggu aaaaaauugg augacagaaa ccuuguuggu 1080
66 ccaaaaugcg aacccagauu guaagacuau uuuaaaagca uugggaccag cggcuacacu 1140
67 agaagaaaug augacagcau gucagggagu aggaggaccc ggccauaagg caagaguuuu 1200
68 ggcugaagca augagccaag uaacaaauac agcuaccaua augaugcaga gaggcaauuu 1260
69 uaggaaccaa agaaagaugg uuaaguguuu caauuguggc aaagaagggc acacagccag 1320
70 aaauugcagg gccccuagga aaaagggcug uuggaaaugu ggaaaggaag gacaccaaau 1380
71 gaaagauugu acugagagac aggcuaauuu uuuagggaag aucuggccuu ccuacaaggg 1440
72 aaggccaggg aauuuucuuc agagcagacc agagccaaca gccccaccau uucuucagag 1500
73 cagaccagag ccaacagccc caccagaaga gagcuucagg ucugggguag agacaacaac 1560
74 ucccccucag aagcaggagc cgauagacaa ggaacuguau ccuuuaacuu cccucagauc 1620
75 acucuuuggc aacgacccgu cgucacaaua aagauagggg ggcaacuaaa ggaagcucua 1680
76 uuagauacag gagcagauga uacaguauua gaagaaauga guuugccagg aagauggaaa 1740
77 ccaaaaauga uaggggggaau uggagguuuu aucaaaguaa gacaguauga ucagauacuc 1800
78 auagaaaucu guggacauaa agcuauaggu acaguauuag uaggaccuac accugucaac 1860
79 auaauuggaa gaaaucuguu gacucagauu gguugcacuu uaaauuuucc cauuagcccu 1920
80 auugagacug uaccaguaaa auuaaagcca ggaauggaug gcccaaaagu uaaacaaugg 1980
81 ccauugacag aagaaaaaau aaaagcauua guagaaauuu guacagaaau ggaaaaggaa 2040
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83 aaaaaagaca guacuaaaug gagaaaauua guagauuuca gagaacuuaa uaagagaacu 2160
84 caagacuucu gggaaguuca auuaggaaua ccacaucccg caggguuaaa aaagaaaaaa 2220
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87 caguacaaug ugcuuccaca gggauggaaa ggaucaccag caauauucca aaguagcaug 2400
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92 gugcugccag aaaaagacag cuggacuguc aaugacauac agaaguuagu ggggaaauug 2700
93 aauugggcaa gucagauuua cccagggauu aaaguaaggc aauuauguaa acuccuuaga 2760
94 ggaaccaaag cacuaacaga aguaauacca cuaacagaag aagcagagcu agaacuggca 2820
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101 uuaugguacc aguuagagaa agaacccaua guaggagcag aaaccuucua uguagauggg 3240
102 gcagcuaaca gggagacuaa auuaggaaaa gcaggauaug uuacuaacaa aggaagacaa 3300
103 aagguugucc cccuaacuaa cacaacaaau cagaaaacug aguuacaagc aauuuaucua 3360
104 gcuuugcagg auucaggauu agaaguaaac auaguaacag acucacaaua ugcauuagga 3420
105 aucauucaag cacaaccaga uaaaagugaa ucagaguuag ucaaucaaau aauagagcag 3480
106 uuaauaaaaa aggaaaaggu cuaucuggca uggguaccag cacacaaagg aauuggagga 3540

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108 auagauaagg cccaagauga acaugagaaa uaucacagua auuggagagc aauggcuagu 3660
109 gauuuuaacc ugccaccugu aguagcaaaa gaaauaguag ccagcuguga uaaaugucag 3720
110 cuaaaaggag aagccaugca uggacaagua gacuguaguc caggaauaug gcaacuagau 3780
111 uguacacauu uagaaggaaa aguuauccug guagcaguuc auguagccag uggauauaua 3840
112 gaagcagaag uuauuccagc agaaacaggg caggaaacag cauauuuucu uuuaaaauua 3900
113 gcaggaagau ggccaguaaa aacaauacau acagacaaug gcagcaauuu caccagugcu 3960
114 acgguuaagg ccgccuguug gugggcggga aucaagcagg aauuuggaau ucccuacaau 4020
115 ccccaaaguc aaggaguagu agaaucuaug aauaaagaau uaaagaaaau uauaggacag 4080
116 guaagagauc aggcugaaca ucuuaagaca gcaguacaaa uggcaguauu cauccacaau 4140
117 uuuaaaagaa aaggggggau ugggggguac agugcagggg aaagaauagu agacauaaua 4200
118 gcaacagaca uacaaacuaa agaauuacaa aaacaaauua caaaaauuca aaauuuucgg 4260
119 guuuauuaca gggacagcag aaauccacuu uggaaaggac cagcaaagcu ccucuggaaa 4320
120 ggugaagggg caguaguaau acaagauaau agugacauaa aaguagugcc aagaagaaaa 4380
121 gcaaagauca uuagggauua uggaaaacag auggcaggug augauugugu ggcaaguaga 4440
122 caggaugagg auuagaacau ggaaaaguuu aguaaaacac cauauguaug uuucagggaa 4500
123 agcuagggga ugguuuuaua gacaucacua ugaaagcccu cauccaagaa uaaguucaga 4560
124 aguacacauc ccacuagggg augcuagauu gguaauaaca acauauuggg gucugcauac 4620
125 aggagaaaga gacuggcauu ugggucaggg agucuccaua gaauggagga aaaagagaua 4680
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128 auaucaagca ggacauaaca agguaggauc ucuacaauac uuggcacuag cagcauuaau 4860
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130 gaacaagccc cagaagacca agggccacag agggagccac acaaugaaug gacacuagag 4980
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138 agcaguaagu aguacaugua augcaaccua uacaaauagc aauaguagca uuaguaguag 5460
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146 guagaacaga ugcaugagga uauaaucagu uuaugggauc aaagccuaaa gccaugugua 5940
147 aaauuaaccc cacucugugu uaguuuaaag ugcacugauu ugaagaauga uacuaauacc 6000
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154 uuaaauggca gucuggcaga agaagaggua guaauuagau cugccaauuu cacagacaau 6420
155 gcuaaaacca uaauaguaca gcugaaccaa ucuguagaaa uuaauuguac aagacccaac 6480

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158 acuuuaaaac agauagauag caaauuaaga gaacaauuug gaaauaauaa aacaauaauc 6660
159 uuuaagcagu ccucaggagg ggacccagaa auuguaacgc acaguuuuaa uuguggaggg 6720
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161 aguacuaaag ggucaaauaa cacugaagga agugacacaa ucacccuccc augcagaaua 6840
162 aaacaaauua uaaacaugug gcaggaagua ggaaaagcaa uguaugcccc ucccaucagu 6900
163 ggacaaauua gauguucauc aaauauuaca gggcugcuau uaacaagaga ugugguaaau 6960
164 agcaacaaug aguccgagau cuucagaccu ggaggaggag auaugaggga caauuggaga 7020
165 agugaauuau auaaauauaa aguaguaaaa auugaaccau uaggaguagc acccaccaag 7080
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170 cuggcugugg aaagauaccu aaaggaucaa cagcuccugg ggauuugggg uugcucugga 7380
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172 cagauuugga auaacaugac cuggauggag ugggacagag aaauuaacaa uuacacaagc 7500
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179 cggagccugu gccucuucag cuaccaccgc uugagagacu uacucuugau uguaacgagg 7920
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194 caagaacugc ugacaucgag cuugcuacaa gggacuuucc gcuggggacu uuccagggag 8820
195 gcguggccug ggcgggacug gggaguggcg agcccucaga uccugcauau aagcagcugc 8880
196 uuuuugccug uacugggucu cucugguuag accagaucug agccugggag cuc 8933
200 <210> SEQ ID NO: 4
201 <211> LENGTH: 8933
202 <212> TYPE: RNA
203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Sequence of the IAC-Asrc pseudo target
208 <221> NAME/KEY: mutation
209 <222> LOCATION: (4135)...(4155)

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Input Set : A:\GP104.SeqLst.corrected.txt
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<223> OTHER INFORMATION: Mutated positions: 4135, 4140-1, 4145, 4150, 4152-3, 4155

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gagagcguca guauuaagcg ggggagaauu agaucgaugg gaaaaaauuc gguuaaggcc 180
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ugcaccaggc cagaugagag aaccaagggg aagugacaua gcaggaacua cuaguacccu 840
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caagacuucu gggaaguuca auuaggaaua ccacaucccg caggguuaaa aaagaaaaaa 2220
ucaguaacag uacuggaugu gggugaugca uauuuuucag uucccuuaga ugaagacuuc 2280
aggaaguaua cugcauuuac cauaccuagu auaaacaaug agacaccagg gauuagauau 2340
caguacaaug ugcuuccaca gggauggaaa ggaucaccag caauauucca aaguagcaug 2400
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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/943,286

DATE: 01/31/2002
TIME: 13:09:39

Input Set : A:\GP104.SeqLst.corrected.txt
Output Set: N:\CRF3\01312002\I943286.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date